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DESCRIPTORS: \*Secondary emission, Electron beams,  
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The measuring of the sample current in the Castaing  
microprobe permits evaluation, under determined con-  
ditions, of the back-scattered and secondary emission  
of electrons  $\eta$  and  $\Delta$  at the point of impact of the elec-  
tronic probe. The possibilities of an application to  
quantitative or qualitative analysis are briefly dis-  
cussed. (Author)  
(Metallurgy--Structural, TT, v. 10, no. 10)

63-20344

- I. Title: Castaing  
microprobe
- I. Philibert, J.
- II. Weinryle, E.

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Between Uranium-Zirconium in the  $\gamma$  Phase, by Y. Adda,  
Jean Philibert, Claude Mairy, George Chaudron.

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Study of Oxidation-Reduction Diffusion in a Cubic  
Centered Solid  $\gamma$  Solution, by Yves Adda,  
Jean Philibert, et al, 24 pp.  
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Thin Film of Gold on the Phase Changes  
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on the Support of Quartz onto the Metal,  
by Roger Philip, 4 pp.

FRENCH, per, Comptes Rendus, Vol CXXLVIII,  
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No 24, 1959, pp 3418-3420.

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Photosensitive Device, by N. V. Philips.  
FRENCH, patent 1,385,210, Nov. 30, 1964  
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*N. V. Philips*

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ON TITRATING ACID GROUPS IN HOMOPOLYMERS AND  
COPOLYMERS OF ACRYLONITRILE. Communication no. 7  
of Analysis of Polyacrylonitrile Fibers. 51p, 10refs.  
Order from SLA: \$3.60 as TT-65-12073

Trans. of Faserforschung und Textiltechnik (East Germany)  
v15 n7 p301-15 1974.

I. Philipp, B.  
II. Reichert, H.  
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IV. Groebe, V.  
V. Title: Analysis ...

MR 625

The Kinetics of Xanthate Reaction of Cellulose.  
Communication No 2. The Influence of Chemical  
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REF-69-12746-112

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B. Philipp

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*B. Philipp*

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The Rate of Dissolution of Fibrous  
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by B. Phillipp, T. Lukanoff. 19 p.  
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technik, Vol 15, No 8, 1963, pp 307-313.  
SLA TT-66-10541

*B. Phillipp*

Sci-M&N  
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MODE OF OPERATION OF VISCOSE ADDITIVES.  
PT. II. BEHAVIOR OF VISCOSE BYPRODUCTS  
SODIUM TRITHIOCARBONATE AND SODIUM SUL-  
FIDE AGAINST ADDITIVES (Chemische Untersuchen-  
gen zur Wirkungsweise von Viskosemodifikatoren,  
Teil II). [22 Mar 63] [26]p. 15 refs.  
Order from SLA \$2.60

63-18341

Trans. of Faserforschung und Textiltechnik (East  
Germany) 1962, v. 13, no. 9, p. 385-392.

DESCRIPTORS: \*Rayon, \*Viscose, Additives, \*Sodium  
compounds, Thio radicals, \*Carbonates, \*Sulfides,  
\*Ethylenes, Glycols, \*Amines, \*Zinc compounds.

Investigations were aimed at clarifying the question,  
whether and to which extent the reaction between the  
viscose by-products, trithiocarbonate and sulfide, and  
(Materials--Textiles, TT, v. 10, no. 11) (over)

63-18341

I. Philipp, B.  
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III. Title: Behavior ...

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Philipp, B.  
ON THE REACTIVITY OF CHEMICAL PULPS.  
[23 May 63] [17]p. 10 refs.  
Order from SLA \$1.60

63-18271

Trans. of Zellstoff u[nd] Papier (East Germany) 1959,  
v. 8, no. 7, p. 251-256.

DESCRIPTORS: \*Wood pulp, \*Viscose, \*Fibers,  
Molecular structure, Reaction kinetics, \*Cellulose,  
Chemical reactions, Fibre studies.

Some investigations on the reactivity of chemical pulps  
are reported which aimed first at the solution of the  
problem concerning the relationship between super-  
molecular fiber structure, reaction kinetics and  
processability during the viscose process, and second,  
to give some suggestions and indications for the  
laboratory tests of the processability in the producing  
or converting industry. (Author)  
(Materials--Paper, TT, v. 10, no. 11)

63-18271

I. Philipp, B.

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Kinetics of the Reaction of Carbon Disulphide with  
Caustic Soda. Part I., by B. Philipp:

GERMAN, per, Faserforsch u Textiltech, Vol VI, pp 433-  
442, Oct 1955.

ASLIB-GB121

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Kinetics of the Reaction of Carbon Disulphide With  
Caustic Soda. Part II., by B. Philipp.

GERMAN, per, Faserforsch u Textiltech, pp 509-620,  
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Philipp, Burkart and Fichte, Christa.  
KINETIC STUDIES ON THE DECOMPOSITION OF  
XANTHATES. [1961] [23]p.  
Order from SLA \$2.60 61-16589

Trans. of Faserforschung und Textiltechnik (Germany)  
1960, v. 11 [no. 3] p. 118-124.

DESCRIPTORS: \*Xanthic acids, Decomposition, Reaction kinetics, Textiles.

The course of decomposition of xanthates of mono- and polyhydric alcohols (ethanol, 1,4-butanediol, 1,3-butanediol, ethylene glycol, glycerine) as well as of monomeric sugars (glucose, xylose) in aqueous solution was investigated in a wide pH-range (pH 4.6 to 7 n NaOH), and compared with the process of decomposition of dilute solutions of pure cellulose xanthate. Considering earlier results of our own investigation as well as the work published by other authors, the mechanism of decomposition is discussed for the various

61-16589

- I. Philipp, B.  
II. Fichte, C.

Office of Technical Services